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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,595	01/23/2004	Habib Riazi	8-20-7	7729
7590 07/26/2005			EXAMINER	
Ryan, Mason & Lewis, LLP			DUONG, DUC T	
Suite 205				0.000 10.000
1300 Post Road			ART UNIT	PAPER NUMBER
Fairfield, CT 06824			2663	
			DATE MAILED: 07/26/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/763,595	RIAZI ET AL.				
		Examiner	Art Unit				
		Duc T. Duong	2663				
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply							
THE - External after - If the - If NC - Failu Any I	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) day period for reply is specified above, the maximum statutore to reply within the set or extended period for reply will, reply received by the Office later than three months after red patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, however, ration. 19s, a reply within the statutory minimum ry period will apply and will expire SIX (6 by statute, cause the application to become	nay a reply be timely filed of thirty (30) days will be considered time b) MONTHS from the mailing date of this ome ABANDONED (35 U.S.C. § 133).	ely. communication.			
Status							
1)⊠	Responsive to communication(s) filed of	n <u>09 May 2005</u> .					
2a) <u></u> □	This action is FINAL . 2b)	This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
5)□ 6)⊠ 7)⊠	4) ⊠ Claim(s) 1-30 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1,2,6-10,14-18,21-25 and 28-30 is/are rejected. 7) ⊠ Claim(s) 3-5,11-13,19,20,26 and 27 is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.						
Applicati	ion Papers		·				
10)	The specification is objected to by the E The drawing(s) filed on is/are: a) Applicant may not request that any objectio Replacement drawing sheet(s) including the The oath or declaration is objected to by	accepted or b) objectent to the drawing(s) be held in all correction is required if the drawing	beyance. See 37 CFR 1.85(a). awing(s) is objected to. See 37 C				
Priority ι	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachmen	t(s)						
	e of References Cited (PTO-892)	·	view Summary (PTO-413) er No(s)/Mail Date				
3) Infon	te of Draftsperson's Patent Drawing Review (PTO- mation Disclosure Statement(s) (PTO-1449 or PTO or No(s)/Mail Date		ce of Informal Patent Application (PT	ГО-152)			

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-30 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 1, 2, 6-10, 14-18, 21-25, and 28-30 are rejected under 35 U.S.C. 102(e) as being anticipated by Schafer et al (U.S. Patent 6, 134, 267).

Regarding to claims 1 and 9, Schafer discloses an orthogonal frequency division multiplexing OFDM transmitter (Fig. 9 col. 1 lines 13-30) for transmitting a signal comprising an encoder 2 for modulating said signal, a transformer 10 for creating said signal having a plurality of sub-carriers, and means 8 for inserting an identifying signal

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TII on inactive sub-carriers (col. 1 lines 31-35; the TII signal is inserted in a null symbol (inactive sub-carriers)).

Regarding to claims 2 and 10, Schafer discloses using differential demodulation (implying of differential modulation) said signal in the frequency domain (col. 2 lines 39-42).

Regarding to claims 6 and 14, Schafer discloses the inactive sub-carriers (null symbol) carrying said identifying signal are transmitted with each OFDM symbol (col. 1 lines 34-35).

Regarding to claims 7 and 15, Schafer discloses the transformer implements an Inverse Fast Fourier Transform (col. 1 line 19).

Regarding to claims 8 and 16, Schafer discloses the transformer implements an orthogonal transform (col. 1 lines 32-33; noted the standard ETS 300 401 implements an orthogonal transmission).

Regarding to claims 17 and 24, Schafer discloses an orthogonal frequency division multiplexing OFDM receiver (Fig. 1 col. 1 lines 13-30) for receiving a signal comprising a decoder 19 for demodulating said signal, a transformer 16 for transforming said received signal to recover an signal in the frequency domain having a plurality of sub-carriers, and means 18 for processing an identifying signal received on inactive sub-carriers (col. 1 lines 31-35; the TII signal is inserted in a null symbol (inactive sub-carriers)).

Regarding to claims 18 and 25, Schafer discloses differential demodulates said signal in the frequency domain (col. 2 lines 39-42).

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Regarding to claims 21, and 28, Schafer discloses the inactive sub-carriers (null symbol) carrying said identifying signal are received with each OFDM symbol (col. 1 lines 34-35).

Regarding to claims 22, and 29, Schafer discloses the transformer implements a Fast Fourier Transform (col. 1 line 23).

Regarding to claims 23, and 30, Schafer discloses the transformer implements an orthogonal transform (col. 1 lines 32-33; noted the standard ETS 300 401 implements an orthogonal transmission).

Allowable Subject Matter

4. Claims 3-5, 11-13, 19, 20, 26, and 27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc T. Duong whose telephone number is 571-272-3122. The examiner can normally be reached on M-F (9:00 AM-5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Q. Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DD.

PRICKY NGO PRIMARY EXAMINER

7/2/05